

Table of CONTENTS

CHARTS AND TABLES

Packaging Materials Under Government Controls.....	12-13
Tests of Packaging Materials.....	23
Color Effectiveness (Colored Plates).....	29
Color Standards.....	32
Gauge Lists for Folding Boxboard.....	79
Chart—Liners for Closures.....	212
Adhesives	
Characteristics.....	298
Properties and Uses.....	310

Coatings

Chemical Properties.....	340
Physical Properties.....	342
Properties of Functional Packaging Materials..	382

GOVERNMENT SPECIFICATIONS

Glass Packages.....	164 ff.
Metal Packages (Tin Cans for Foods).....	222 ff.
Army-Navy Specifications	
Fibreboard Boxes.....	481
Nailed Wood Boxes.....	486
Wirebound Boxes.....	489
Strapping Shipments.....	497



Foreword.....	2
Authors and Acknowledgments.....	3

★ CARTONS AND BOXES

The Paper Industry Meets War Demands...	62
Wood Pulp in the Paperboard Industry...	63
Paper Assumes New Packaging Duties	
In the Food Field.....	65
In the Drug Field.....	66
In the Cosmetic Field.....	69
In Wartime Packaging.....	74
Boxboard: Types and Selection.....	74
Folding Box Directives.....	80
Folding and Display Cartons.....	82
Waxed Cartons in Wartime.....	108
Set-up Paper Covered Boxes.....	112
Molded Pulp Containers.....	128
Molded Wax Containers.....	130
Packages of Wood.....	134
Substitutions in Fancy Packaging.....	136

★ BAGS

Paper Bags.....	140
Transparent Bags.....	146
Metal Foil Bags.....	150
Heavy Duty Multi-wall Bags.....	152
Merchandise Envelopes and Packets.....	154
Textile Bags.....	156
Bag Closing and Sealing Methods.....	158

★ BOTTLES AND JARS

Glass Containers Standardized.....	162
Finishes for Glass Containers.....	163
WPB Glass Specifications:	
Standardized Food Containers.....	164

★ PACKAGING LAW

The Food, Drug and Cosmetic Act.....	48
Officials Administering the Food, Drug and Cosmetic Act.....	51
State and Local Laws.....	52
Officials Administering State Regulatory Legislation.....	53
Regulations Affecting Special Trades.....	54
Package and Trade-mark Trespassing.....	57
Package and Trade-mark Protection.....	60

Containers for Distilled Spirits.....	171	Decorative Packaging in Wartime.....	377
Containers for Malt Beverages.....	171	Properties of Functional Packaging Materials.....	Opposite 382
Containers for Certain Food Products.....	174		
Containers for Wines.....	174		
Containers for Paint.....	176		
Stock Bottles—Not Standardized.....	178		
Blood Plasma Bottles.....	178		
Hand Made Glass Bottles.....	180		
Pottery Containers.....	184		
Containers Fabricated from Glass Tubing..	188		
★ CLOSURES			
Government Closure Restrictions.....	190		
Standard Types of Closures.....	193		
New Types of Closures.....	206		
Closure Liners and Sealing Compounds.....	208		
Substitute Closure Liners.....	210		
★ CANS, TUBES AND VIALS			
Steel Containers in Wartime.....	214		
Schedules from WPB Conservation Order			
M-81.....	222		
Fibre-bodied Cans.....	226		
Liquid-Tight Paper Containers.....	230		
Collapsible Metal Tubes.....	234		
Tube Restrictions and Substitutes.....	238		
★ LABELS, SEALS, TAGS AND MARKING PIECES			
The Origin of Labeling.....	240		
Styles and Varieties.....	242		
Materials and Processes.....	243		
Labeling Laws.....	248		
Grade Labeling.....	254		
Descriptive Labeling.....	256		
Informative Labeling.....	258		
Fifteen Optional Uses of Label Space.....	262		
★ PLASTICS			
Basic Definitions.....	266		
Manufacturing Methods.....	274		
Compounds.....	278		
Resins.....	280		
Plastics in the War.....	286		
The Post-war Picture.....	288		
★ ADHESIVES			
Adhesives and the War Effort.....	296		
Types of Adhesives and Adhesion.....	297		
Capabilities of Adhering.....	298		
Meeting Field Conditions.....	306		
Meeting Machine Requirements.....	312		
★ WRAPPINGS—COATINGS—LAMINATIONS			
Transparent Films.....	316		
Glassine as a Protective Wrap.....	318		
Waxed Paper.....	324		
Vegetable Parchments.....	330		
Printed Transparent Sheeting.....	334		
Protective Coatings—Technical Aspects.....	339		
Lacquer Uses in Wartime Packaging.....	354		
Special Papers for Packaging Purposes.....	357		
Heat Sealing.....	364		
★ MACHINERY AND EQUIPMENT			
The War and Packaging Machines.....	384		
Factors of Mechanization.....	386		
Weighing and Filling Dry Products.....	388		
Check-weighing Scales and Devices.....	392		
Bottle Cleaning Equipment.....	394		
Filling Liquids and Pastes.....	397		
Capping and Sealing Equipment.....	400		
Labeling Machines and Devices.....	408		
Wrapping Equipment.....	416		
Tight Wrapping Equipment.....	426		
Carton Loading and Closing Equipment.....	430		
Collapsible Tube Filling.....	432		
Bag Filling and Sealing.....	438		
Box and Bag Stapling Equipment.....	442		
Case Packing and Sealing Machinery.....	446		
Materials Handling Equipment.....	448		
Lubrication of Packaging Machinery.....	456		
Package Printing Equipment.....	460		
Coating, Laminating and Embossing Equipment.....	468		
★ SHIPPING			
War Changes Shipping Practices.....	472		
Standard Shipping Practices.....	473		
Shipping Cases of Corrugated and Fibre Boxes.....	479		
Army-Navy Specifications—Fibreboard Boxes.....	481		
Nailed Wood Shipping Boxes.....	485		
Army-Navy Specifications—Nailed Wood Boxes.....	486		
Army-Navy Specifications—Wirebound Boxes.....	489		
Steel Strapping Shipments.....	493		
Army-Navy Specifications—Strapping Shipments.....	497		
Wire-stitched Containers.....	498		
Fibre Drums.....	502		
Linings for Fibre Containers.....	507		
Steel Drums.....	510		
Linings for Metal Containers.....	514		
Wooden Barrels.....	518		
Protective Pads and Cushions.....	520		
Sealing Cases with Paper Tape.....	526		
Packaging for Export.....	536		
★ DISPLAYS			
War's Effect on Display.....	542		
Display Circulation Measurement.....	544		
Specific Jobs Displays Can Do.....	545		
Preparation and Planning of Displays.....	547		
Relating Displays to Other Media.....	550		
Methods of Distributing Display Material.....	554		
Using Windows Effectively.....	556		
Wartime Jobs of Counter Displays.....	558		
Corrugated Cases for Double Duty.....	563		
Wood Displays and Cabinets.....	567		
Crepe Paper for Display and Backgrounds.....	569		
Corrugated Display Materials.....	574		
★ INDEX—DIRECTORIES			
Buyers' Directory.....	580		
Directory of Trade Names.....	607		
List of Manufacturers and Addresses.....	622		
How to Use This Book.....	631		
Advertisers' Index.....	632		

